

IN THE CLAIMS:

Please amend the claims as follows:

1. (WITHDRAWN) A chilling tank system for containment of chilled liquids, the chiller tank system comprising:

an first tank and a second tank position within the first tank, the first tank spaced apart from the second tank, insulation material positioned between the first tank and the second tank, the second tank defining a chamber for receiving liquid to be chilled;

the second tank comprising a top, the top adjacent the second tank above
the chamber for sealing the chamber;

a refrigeration unit for supplying inert refrigerant to the tank;

a duel hose for circulating refrigerant between the refrigeration unit and the tank, the duel hose comprising an inner hose and an outer hose concentric to the inner hose, the outer hose spaced apart from the inner hose so that the inner hose and the outer hose define a conduit;

a chiller barrel positioned vertically within the tank and extending out of the top, the barrel defining a bore;

the barrel having a first end portion and a second closed end portion, the first end defining an opening into the bore, the first end connected to the outer hose, the inner hose extending into the bore through the opening of the first end;

2. (WITHDRAWN) The chiller tank system of claim 1 further comprising at least one vent line extending out from the second tank.

3. (WITHDRAWN) The chiller tank system of claim 1 comprising a metering pump, a first vent extending from the top of the system and a second vent release line.

4. (WITHDRAWN) The chiller tank system of claim 2 wherein the flange is directed away from the opening of the underdrain block and the rim is adapted to be positioned over the ridge of the underdrain block to interlock onto the flange.

5. (WITHDRAWN) The chiller tank system of claim 1 further comprising a size that is adapted to snap lock onto the ridge when the chiller tank system is fitted within the opening of the underdrain block.

6. (WITHDRAWN) The chiller tank system of claim 1 further comprising an inlet pipe to transport liquid into the second tank and an outlet pipe to transport chilled liquid out of the second tank.

7. (WITHDRAWN) The chiller tank system of claim 1 wherein the rim is u-shaped.

8. (WITHDRAWN) The chiller tank system of claim 7 wherein the u-shaped rim defines a channel and the rim further comprises a sealing member fitted within the channel.

9. (WITHDRAWN) The chiller tank system of claim 8 wherein the sealing member comprises a bead of plastic sealing compound.

10. (WITHDRAWN) The chiller tank system of claim 8 wherein the sealing member comprises an o-ring.

11. (WITHDRAWN) The chiller tank system of claim 1 wherein the bottom of the chiller tank system comprises one or more protrusions for anchoring the chiller tank system in the fill material.

12. (WITHDRAWN) A chilling tank for containment of chilled liquids, the chiller tank comprising:

- a double walled tank comprising an inner wall and an outer wall spaced apart from the inner wall, insulation material positioned between the outer wall and the inner wall, the inner wall defining a chamber for receiving liquid to be chilled;

- a top adjacent the inner wall above the chamber for sealing the chamber;

- a refrigeration unit for supplying inert refrigerant to the tank;

- a dual hose for circulating refrigerant between the refrigeration unit and the tank, the dual hose comprising an inner hose and an outer hose concentric to the inner hose, the outer hose spaced apart from the inner hose so that the inner hose and the outer hose define a conduit;

a chiller barrel positioned vertically within the tank, the barrel defining a bore;

the barrel having a first end portion and a second closed end portion, the first end defining an opening into the bore, the first end connected to the outer hose, the inner hose extending into the bore through the opening of the first end;

13. (WITHDRAWN) The chiller tank system of claim 12 wherein the u-shaped rim defines a channel and the rim further comprises a sealing member fitted within the channel.

14. (WITHDRAWN) The chiller tank system of claim 12 wherein the locking means comprises a rim size configured to tightly fit over the flange.

15. (WITHDRAWN) The chiller tank system of claim 12 wherein the bottom of the chiller tank system comprises one or more protrusions for anchoring the chiller tank system in the fill material.

16. (WITHDRAWN) A chiller tank system for an underdrain block, the underdrain block including a top surface defining an opening for receiving fill material, the top surface forming a ridge surrounding the opening, the chiller tank system comprising:

a top, a bottom, and a peripheral edge, the peripheral edge comprising a u-shaped rim;

the u-shaped rim comprising a locking means adapted to tightly fit over the ridge so that the rim interlocks with the ridge;

the chiller tank system molded from an impervious plastic;

the chiller tank system comprising a size to snap lock onto the ridge so as to tightly close the opening.

17. (WITHDRAWN) The chiller tank system of claim 16 wherein the u-shaped rim defines a channel and the rim further comprises a sealing member fitted within the channel, the sealing member adapted to seal the rim onto the ridge.

18. (WITHDRAWN) The chiller tank system of claim 16 wherein the locking means comprises prongs adapted to tightly engage with the ridge.

19. (CURRENTLY AMENDED) An underdrain block for a filter system comprising:

a hollow plastic housing;

the housing comprising a top wall, a bottom wall, and ends walls and side walls connecting the top wall to the bottom wall, the bottom wall forming two lateral rows of support legs to provide for the passage of fluid;

the top wall defining an opening for receiving ~~the~~ a fill material, the top wall forming a ridge surrounding the opening;

a lid for sealing the opening in the top wall, the lid comprising a top, a bottom, and a peripheral edge, the peripheral edge comprising a u-shaped rim;

the u-shaped rim comprising a locking means to tightly fit over the ridge so that that the rim interlocks with the ridge.

20. (ORIGINAL) The underdrain block of claim 19 wherein the lid comprises a size to snap lock onto the ridge so as to seal the opening.

21. (ORIGINAL) The underdrain block of claim 19 wherein the ridge of the underdrain block comprises a flange perpendicular to the top surface and directed downward into the opening, and the rim comprises a size to fit tightly over the flange so that the rim interlocks with the flange.

22. (ORIGINAL) The underdrain block of claim 19 wherein the u-shaped rim defines a channel and the rim further comprises a sealing member fitted within the channel to seal the rim onto the flange.

23. (ORIGINAL) The underdrain block of claim 19 wherein the locking means comprises a rim sized to interlock with the rim.

24. (ORIGINAL) The underdrain block of claim 19 wherein the bottom of the lid comprises one or more protrusions for anchoring the lid in the fill material.

25. (CURRENTLY AMENDED) An underdrain block for a filter system, the underdrain block including a top surface defining an opening for receiving fill material, the top surface forming a ridge surrounding the opening, the ridge comprising a flange perpendicular to the top surface and directed downward into the opening, the lid comprising:

a top, a bottom, and a peripheral edge, the peripheral edge comprising a u-shaped rim;

the u-shaped rim comprising locking means configured to tightly fit over the flange so that the rim interlocks with the flange, the u-shaped rim defining a channel and the rim further comprising a sealing member fitted within the channel to seal the rim onto the flange;

~~the~~ a lid comprising a size to snap lock onto the ridge so as to tightly close the opening.

26. (ORIGINAL) The underdrain block of claim 25 wherein the bottom of the lid comprises one or more protrusions for anchoring the lid in the fill material.

27. (CURRENTLY AMENDED) An underdrain block for a filter system comprising:

a hollow, plastic housing;

the housing comprising a top wall, a bottom wall, and end and side walls connecting the top wall to the bottom wall, the bottom wall forming two lateral rows of support legs to provide for the passage of fluid;

the top wall defining an opening for receiving ~~the~~ a fill material, the top wall forming a ridge surrounding the opening;

a lid for sealing the opening in the top wall, the lid comprising a top, a bottom, and a peripheral edge, the peripheral edge comprising a u-shaped rim;

the u-shaped rim comprising a locking means to tightly fit over the ridge so that the rim interlocks with the ridge;

the lid comprising a size to snap lock onto the ridge so as to seal the opening.

28. (WITHDRAWN) A support system for supporting granular filter media above a filter bottom, the filter bottom having an infrastructure, the support system comprising:

a layer of underdrain blocks placed over infrastructure of the filter bottom, each underdrain block comprising a top and a bottom and further comprising a lid;

one or more porous plates placed over the underdrain blocks to support the filter media;

anchoring means for securing the porous plates.

29. (WITHDRAWN) The support system of claim 28 wherein the chiller tank system defines one or more bolt holes, the porous plate defines one or more bolt holes aligned to the bolt holes of the chiller tank system and the anchoring means comprises bolts threaded through the chiller tank system bolt holes and the porous plate bolt holes to secure the porous plate to the lid.

30. (WITHDRAWN) The support system of claim 28 wherein the chiller tank system defines one or more bolt holes, the porous plate defines one or more bolt holes aligned to the bolt holes of the chiller tank system and the anchoring means comprises expandable anchors threaded through the chiller tank system bolt holes and the porous plate bolt holes to secure the porous plate to the lid.

31. (WITHDRAWN) The support system of claim 28 wherein the underdrain block comprises fill material and the anchoring means is anchored into the fill material.

32. (WITHDRAWN) The support system of claim 28 wherein the underdrain block comprises fill material and the fill material forms protrusions extending out from the top of the block, the porous plate defines a first set of openings, the chiller tank system defines a second set of openings aligned with the first set of openings in the plate, and the protrusions extend through the first and second set of openings and are secured with a securing mechanism to anchor the porous plate to the underdrain block.

33. (WITHDRAWN) The support system of claim 28 wherein the anchoring means comprises anchors extending from the porous plate between the underdrain blocks adapted to secure the porous plate to the infrastructure.

34. (WITHDRAWN) A support system for supporting granular filter media above a filter bottom, the filter bottom having an infrastructure, the support system comprising:

a layer of underdrain blocks placed over infrastructure of the filter bottom, each underdrain block comprising a top and a bottom and further comprising a lid, the chiller tank system defining one or more bolt holes;

one or more porous plates placed over the underdrain blocks to support the filter media, the porous plate defining one or more bolt holes aligned to the bolt holes of the lid; and

bolts threaded through the chiller tank system bolt holes and the porous plate bolt holes to secure the porous plate to the lid.

35. (WITHDRAWN) A support system for supporting granular filter media above a filter bottom, the filter bottom having an infrastructure, the support system comprising:

a layer of underdrain blocks placed over infrastructure of the filter bottom, each underdrain block comprising a top and a bottom and further comprising a lid, the chiller tank system defining one or more bolt holes;

one or more porous plates placed over the underdrain blocks to support the filter media, the porous plate defining one or more bolt holes aligned to the bolt holes of the lid; and

expandable anchors threaded through the chiller tank system bolt holes and the porous plate bolt holes to secure the porous plate to the lid.

36. (WITHDRAWN) A support system for supporting granular filter media above a filter bottom, the filter bottom having an infrastructure, the support system comprising:

a layer of underdrain blocks placed over infrastructure of the filter bottom, each underdrain block comprising a top and a bottom, the underdrain block further comprising fill material forming protrusions extending out from the top of the block and a lid, the chiller tank system defining a first set of openings;

one or more porous plates placed over the underdrain blocks to support the filter media, the porous plate defining a second set of openings aligned to the openings within the lid;

wherein the protrusions extend through the first and second set of openings and are secured with a securing mechanism to anchor the porous plate to the underdrain block.

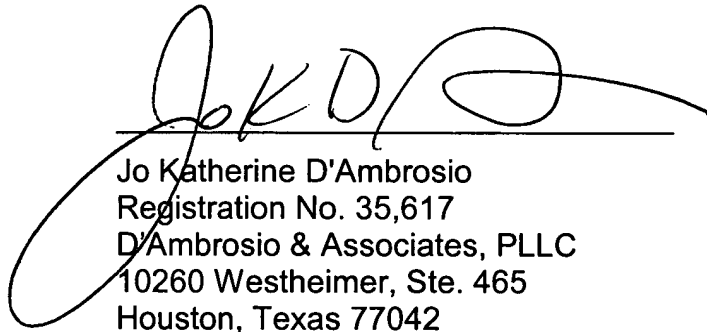
REQUEST

Applicant respectfully resubmits required the corrected section, Amendment to the Claims of the Response to Office Action submitted July 30, 2004, in compliance with 37 CFR 1.121.

Applicant respectfully requests a telephone interview with Examiner to resolve any questions related to this response.

Respectfully submitted,

August 31, 2004

A handwritten signature in black ink, appearing to read 'Jo K D/A', is written over a horizontal line. The signature is stylized with large loops and a long horizontal stroke extending to the right.

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